

## NSCSC 7<sup>th</sup> Grade Pre-Algebra Benchmark Checklist

\*Note: These Benchmarks are expectations for this course.

Student Name: \_\_\_\_\_

Teacher: \_\_\_\_\_

Students are able to:

Percent of Benchmarks Mastered:

Number	Description	Standard	Mastery	Student Score			
				1 <sup>st</sup> Try	2 <sup>nd</sup> Try	3 <sup>rd</sup> Try	4 <sup>th</sup> Try
o 2	Writing numbers in standard form and scientific notation. (Chap. 2 Sec. 9 )	7.1.1	75%				
o 3	Number sense and computation with rational numbers.(Handout) (Chap. 3 Sec. 1-5 )	7.1.2, 7.1.7, 7.2.1, 7.2.4, 7.2.5	75%				
o 6	Find the prime factorization of a number in exponential form (Page 773 )	7.1.5	75%				
o 7	Solve basic problems involving integers. (Chap. 2 Sec. 1-4 )	7.1.2, 7.2.1, 7.2.5	75%				
o 10	Solve problems with ratio and proportion. (Chap. 7 Sec. 1-2 )	7.5.3	75%				
o 16	Compute percentage increase and decrease. (Chap. 8 Sec. 4 )	7.2.2	75%				
o 18	Use graphs to identify and interpret transformations (Chap. 5 Sec. 7 )	7.4.1, 7.4.2	75%				
o 19	Find and apply slope. (Chap. 5 Sec. 5 )	7.3.6, 7.3.7, 7.3.8	75%				
o 25	Make and interpret various types of statistical graphs and compute quartiles. (Chap. 4 Sec. 3-4 )	8.6.4	75%				
o 29	Compute simple interest, discounts, commission and sales tax. (Chap. 8 Sec. 6, 7 )	8.2.2 7.2.3	75%				
o 31	Compute and solve problems involving Pythagorean Theorem. (Chap. 6 Sec. 3 )	8.4.5 7.4.3	75%				
o 32	Solve problems involving area, surface area, and volume. (Chap. 6 Sec. all )	8.5.4, 7.5.4, 7.5.5	75%				
o 33	Understand the concepts of probability. (Chap. 9 Sec. 1,2,4,5,6 )	8.6.6, 8.6.7	75%				
o 35	Solve systems of equations by graphing. (Chap. 11 Sec. 1 and handout )	8.3.2	75%				
o 36	Add, subtract, multiply, and divide fractions. (Chap. 3 Sec.1-4 )	8.2.1	75%				
o 41	Translate verbal phrases and sentences to algebraic expressions and equations. (Chap. 1 Sec. 2 )	7.3.1	75%				
o 42	Simplify numerical expressions. (Chap. 1 Sec. 1 )	8.3.4	75%				
o 44	Solve equations with more than one operation, having variables on both sides. (Chap. 10 Sec.1-3 )	A1.2.1, 7.3.2	75%				
o 46	Solve proportions. (Chap. 7 Sec. 4 )	A1.7.2	75%				
o 47	Solve word problems using percents and proportions. (Chap. 8 Sec. 2,3 )	A1.2.6	75%				
o 49	Sketch, interpret, analyze functions and their graphs. (Handout)	A1.3.1, A1.3.2, A1.3.3	75%				
o 51	Graph linear equations. (Chap. 11 Sec. 1-3 )	A1.4.1	75%				
o 52	Simplify algebraic expressions. (Chap. 1 Sec. 6 )	A1.1.3	75%				